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NEWS 3 Feb 06 Engineering Information Encompass files have new names
NEWS 4 Feb 16 TOXLINE no longer being updated
NEWS 5 Apr 23 Search Derwent WPINDEX by chemical structure
NEWS 6 Apr 23 PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA
NEWS 7 May 07 DGENE Reload
NEWS 8 Jun 20 Published patent applications (A1) are now in USPATFULL
NEWS 9 JUL 13 New SDI alert frequency now available in Derwent's
DWPI and DPCI

NEWS EXPRESS July 11 CURRENT WINDOWS VERSION IS V6.0b,
CURRENT MACINTOSH VERSION IS V5.0C (ENG) AND V5.0JB (JP),
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2001

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 10:18:15 ON 07 AUG 2001

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.15

0.15

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FILE COVERS 1947 - 7 Aug 2001 VOL 135 ISS 7

FILE LAST UPDATED: 6 Aug 2001 (20010806/ED)

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=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.33

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FILE 'REGISTRY' ENTERED AT 10:18:55 ON 07 AUG 2001

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STRUCTURE FILE UPDATES: 6 AUG 2001 HIGHEST RN 350576-96-4

DICTIONARY FILE UPDATES: 6 AUG 2001 HIGHEST RN 350576-96-4

TSCA INFORMATION NOW CURRENT THROUGH January 11, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT for details.

=> e 3-isochromanone/cn

E1 1 3-ISOCHROMANOL, 3-(O-(HYDROXYMETHYL)BENZYL)-/CN

E2 1 3-ISOCHROMANOL, 3-BENZYL-/CN

E3 1 --> 3-ISOCHROMANONE/CN

E4 1 3-ISOCHROMANONE, 1,1,4,4-TETRAMETHYL-/CN

E5 1 3-ISOCHROMANONE, 1,1-BIS(P-HYDROXYPHENYL)-/CN

E6 1 3-ISOCHROMANONE, 1,1-BIS(P-HYDROXYPHENYL)-, POLYMER WITH

DIC

HLOORODIOXOCHROMIUM/CN
 E7 1 3-ISOCHROMANONE, 1,4-DIPHENYL-/CN
 E8 1 3-ISOCHROMANONE,
 1-(3,4-DIMETHOXYBENZYLIDENE)-6,7-DIMETHOXY-
 /CN
 E9 1 3-ISOCHROMANONE, 1-(6-HYDROXYHEPTYL)-6,7-DIMETHOXY-/CN
 E10 1 3-ISOCHROMANONE, 1-(6-HYDROXYHEPTYL)-6,8-DIMETHOXY-/CN
 E11 1 3-ISOCHROMANONE,
 1-(DICHLOROMETHYL)-4-(3,4-DIMETHOXYPHENYL)-
 6,7-DIMETHOXY-/CN
 E12 1 3-ISOCHROMANONE, 1-FLUOREN-2-YL-6,7-DIMETHOXY-/CN

=> e3

L1 1 3-ISOCHROMANONE/CN

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

4.11

4.59

FILE 'CAPLUS' ENTERED AT 10:19:41 ON 07 AUG 2001

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE COVERS 1947 - 7 Aug 2001 VOL 135 ISS 7

FILE LAST UPDATED: 6 Aug 2001 (20010806/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

Caplus now provides online access to patents and literature covered in CA from 1947 to the present. On April 22, 2001, bibliographic information and abstracts were added for over 2.2 million references published in CA from 1947 to 1966.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

Attention, the CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

=> l1

L2 116 L1

=> palladium or Pd

110627 PALLADIUM
 30 PALLADIUMS
 110630 PALLADIUM
 (PALLADIUM OR PALLADIUMS)
 143196 PD
 1551 PDS
 144480 PD
 (PD OR PDS)
 L3 182709 PALLADIUM OR PD

 => 12 and 13
 L4 13 L2 AND L3

 => amin
 333 AMIN
 19 AMINS
 L5 352 AMIN
 (AMIN OR AMINS)

 => amine
 206910 AMINE
 191129 AMINES
 L6 313468 AMINE
 (AMINE OR AMINES)

 => 16 and 14
 L7 3 L6 AND L4

 => d 17 ti fbib abs

 L7 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2001 ACS
 TI Process for preparing 3-isochromanone
 AN 2000:210147 CAPLUS
 DN 132:251074
 TI Process for preparing 3-isochromanone
 IN Jones, Raymond Vincent Heaven; Whitton, Alan John; White, Jennifer Ann;
 Ritchie, David John; Fieldhouse, Robin; MacCormick, Kirstin; Nisbet,
 Logan
 Thomson; Evans, Paul Richard; Bennie, Colin John
 PA Zeneca Limited, UK
 SO PCT Int. Appl., 22 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000017186	A1	20000330	WO 1999-GB2783	19990823
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
				GB 1998-20465	A 19980918
				GB 1999-13325	A 19990608

PA Zeneca Limited, UK
 SO PCT Int. Appl., 18 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9910335	A1	19990304	WO 1998-GB2250	19980728
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	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
				GB 1997-18010	A 19970826
				GB 1997-23200	A 19971103
AU	9885493	A1	19990316	AU 1998-85493	19980728
				GB 1997-18010	A 19970826
				GB 1997-23200	A 19971103
				WO 1998-GB2250	W 19980728
EP	1015442	A1	20000705	EP 1998-936522	19980728
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
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				GB 1997-23200	A 19971103
				WO 1998-GB2250	W 19980728
BR	9811603	A	20000905	BR 1998-11603	19980728
				GB 1997-18010	A 19970826
				GB 1997-23200	A 19971103
				WO 1998-GB2250	W 19980728
ZA	9807438	A	19990406	ZA 1998-7438	19980818
				GB 1997-18010	A 19970826
US	6207840	B1	20010327	US 2000-463509	20000124
				GB 1997-18010	A 19970826
				GB 1997-23200	A 19971103
				WO 1998-GB2250	W 19980728

PATENT FAMILY INFORMATION:

FAN 1999:7990

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9856784	A1	19981217	WO 1998-GB1581	19980529
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	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
				GB 1997-12166	A 19970611
				GB 1997-18010	A 19970826
AU	9876675	A1	19981230	AU 1998-76675	19980529
				GB 1997-12166	A 19970611
				GB 1997-18010	A 19970826
				WO 1998-GB1581	W 19980529
EP	1000052	A1	20000517	EP 1998-924482	19980529

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI

BR 9809833	A	20000620	GB 1997-12166	A	19970611
			GB 1997-18010	A	19970826
			WO 1998-GB1581	W	19980529
			BR 1998-9833		19980529
			GB 1997-12166	A	19970611
			GB 1997-18010	A	19970826
			WO 1998-GB1581	W	19980529
ZA 9805034	A	19990118	ZA 1998-5034		19980610
			GB 1997-12166	A	19970611
ZA 9807438	A	19990406	ZA 1998-7438		19980818
			GB 1997-18010	A	19970826
US 6184392	B1	20010206	US 1999-445491		19991208
			GB 1997-12166	A	19970611
			GB 1997-18010	A	19970826
			WO 1998-GB1581	W	19980529

OS CASREACT 130:196576; MARPAT 130:196576

AB 3-Isochromanone is prepd. by contacting an o-xylene-.alpha.,.alpha.'-dihalide with carbon monoxide in a two-phase liq. medium, in which one phase is aq. and the other phase is water-immiscible, in the presence of

a

catalyst and a hindered **amine** base. E.g., CO was bubbled through a H2O/xylene mixt. contg. o-xylene-.alpha.,.alpha.'-dichloride, (Me2CH)2NEt, (Ph3P)2PdCl2, and Ph3P to give 91% 3-isochromanone.

RE.CNT 3

RE

- (1) Anon; WO 9700850 A CAPLUS
- (2) Iharanikkei Chemical Industry; EP 0834497 A 1998 CAPLUS
- (3) Stauffer Chemical Co; EP 0222460 A 1987 CAPLUS

=> d his

(FILE 'HOME' ENTERED AT 10:18:15 ON 07 AUG 2001)

FILE 'CAPLUS' ENTERED AT 10:18:30 ON 07 AUG 2001

FILE 'REGISTRY' ENTERED AT 10:18:55 ON 07 AUG 2001
E 3-ISOCHROMANONE/CN

L1 1 E3

FILE 'CAPLUS' ENTERED AT 10:19:41 ON 07 AUG 2001

L2 116 L1
L3 182709 PALLADIUM OR PD
L4 13 L2 AND L3
L5 352 AMIN
L6 313468 AMINE
L7 3 L6 AND L4

=> butanol

40572 BUTANOL
836 BUTANOLS
L8 40904 BUTANOL
(BUTANOL OR BUTANOLS)

=> 18 and 14

L9 1 L8 AND L4

=> 19 not 17
L10 1 L9 NOT L7

=> d 110 ti fbib abs

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2001 ACS

TI Process, **palladium** catalysts and dipolar aprotic solvent systems
for the preparation of isochroman-3-ones by the reaction of
1,2-bis(halomethyl)benzenes with alcohols and carbon monoxide

AN 2001:225291 CAPLUS

DN 134:252262

TI Process, **palladium** catalysts and dipolar aprotic solvent systems
for the preparation of isochroman-3-ones by the reaction of
1,2-bis(halomethyl)benzenes with alcohols and carbon monoxide

IN Geissler, Holger; Pfirmann, Ralf

PA Clariant G.m.b.H., Germany

SO Eur. Pat. Appl., 8 pp.

CODEN: EPXXDW

DT Patent

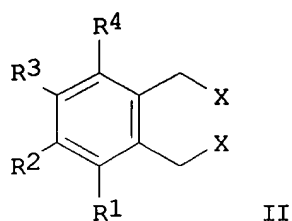
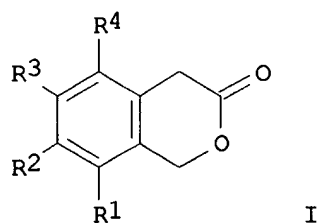
LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1086949	A2	20010328	EP 2000-119865	20000913
	EP 1086949	A3	20010425		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	DE 19945561	A1	20010329	DE 1999-19945561A	19990923
	JP 2001139570	A2	20010522	DE 1999-19945561	19990923
				JP 2000-289949	20000925
				DE 1999-19945561A	19990923

OS MARPAT 134:252262

GI



AB Isochroman-3-ones (I; R1-R4 = H, F, CN, CF3, alkyl, alkoxy, aryl, aryloxy, heteroaryl) (e.g., isochroman-3-one) are prepd. in high yield and selectivity by the reaction of carbon monoxide with 1,2-bis(halomethyl)benzenes (II; X = Cl, Br, I) [e.g., 1,2-bis(chloromethyl)benzene] with alcs. (R5)(R6)(R7)COH (R5-R7 = alkyl, CO2H, H3CCOCH2, arylmethyl) (e.g., tert-butanol) in the presence of a palladium catalyst (e.g., palladium dichloride) at 20-200.degree./0.1-50 MPa in the presence of a dipolar aprotic solvent system and optionally in the presence of water.

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
24.55	29.14

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-2.35	-2.35

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	ENTRY	SESSION
FULL ESTIMATED COST	24.55	29.14
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.35	-2.35

=> d his

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FILE 'CAPLUS' ENTERED AT 10:18:30 ON 07 AUG 2001

FILE 'REGISTRY' ENTERED AT 10:18:55 ON 07 AUG 2001

E 3-ISOCHROMANONE/CN

L1 1 E3

FILE 'CAPLUS' ENTERED AT 10:19:41 ON 07 AUG 2001

L2 116 L1
L3 182709 PALLADIUM OR PD
L4 13 L2 AND L3
L5 352 AMIN
L6 313468 AMINE
L7 3 L6 AND L4
L8 40904 BUTANOL
L9 1 L8 AND L4
L10 1 L9 NOT L7

=> l4 not l7

L11 10 L4 NOT L7

=> d l11 1-10 ti

L11 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2001 ACS

TI Process, **palladium** catalysts and dipolar aprotic solvent systems
for the preparation of isochroman-3-ones by the reaction of
1,2-bis(halomethyl)benzenes with alcohols and carbon monoxide

L11 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2001 ACS

TI Method for preparation of 3-isochromanone

L11 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2001 ACS

TI Preparation of isochroman-3-ones

L11 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2001 ACS

TI Catalytic preparation of 3-isochromanone from phthalan and carbon
monoxide

L11 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2001 ACS

TI Preparation of 3-isochromanone by carbonylation o-xylylene dihalides.

L11 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2001 ACS

TI Direct carbonylation of benzyl alcohol and its analogs catalyzed by **palladium** and HI in aqueous systems and mechanistic studies

L11 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2001 ACS

TI **Palladium**-catalyzed carbonylation of benzyl alcohol and its analogs promoted by HI in aqueous systems

L11 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2001 ACS

TI Process for producing 2-(halomethyl)phenylacetic acid esters

L11 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2001 ACS

TI Preparation of pyrrolidineacetic acid derivatives as nervous system stimulants

L11 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2001 ACS

TI Synthesis of lactones by the **palladium**-catalyzed carbonylation of halo alcohols

=> d l11 5 ti fbib abs

L11 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2001 ACS

TI Preparation of 3-isochromanone by carbonylation o-xylylene dihalides.

AN 1999:7990 CAPLUS

DN 130:52333

TI Preparation of 3-isochromanone by carbonylation o-xylylene dihalides.

IN Jones, Raymond Vincent Heavon; McCann, Hannah Sallie Robertson

PA Zeneca Limited, UK

SO PCT Int. Appl., 17 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9856784	A1	19981217	WO 1998-GB1581	19980529
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	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
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				GB 1997-18010	A 19970826
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				GB 1997-18010	A 19970826

ZA 9805034 A 19990118
 ZA 9807438 A 19990406
 US 6184392 B1 20010206

WO 1998-GB1581 W 19980529
 ZA 1998-5034 19980610
 GB 1997-12166 A 19970611
 ZA 1998-7438 19980818
 GB 1997-18010 A 19970826
 US 1999-445491 19991208
 GB 1997-12166 A 19970611
 GB 1997-18010 A 19970826
 WO 1998-GB1581 W 19980529

PATENT FAMILY INFORMATION:

FAN 1999:166607

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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				GB 1997-23200	A 19971103
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				WO 1998-GB2250	W 19980728
	EP 1015442	A1	20000705	EP 1998-936522	19980728
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				WO 1998-GB2250	W 19980728
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				GB 1997-23200	A 19971103
				WO 1998-GB2250	W 19980728

OS CASREACT 130:52333

AB 3-Isochromanone is prepd. by reacting an o-xylene-.alpha.,.alpha.'-dihalide with CO and H2O in the presence of a catalyst at pH 7-11. Thus, a mixt. of o-xylene dichloride, K2CO3, Aliquat 336, and Pd on montmorillonite in PhMe at 70.degree. was bubbled with CO and treated portionwise with PPh3 followed by stirring for 13 h to give 54.8% 3-isochromanone.

RE.CNT 2

RE

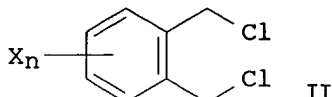
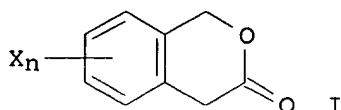
(1) Anon; WO 9700850 A CAPLUS

(2) Iharanikkei Chemical Industry; EP 0834497 A 1998 CAPLUS

=> d 111 2,3 ti fbib abs

L11 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2001 ACS
 TI Method for preparation of 3-isochromanone
 AN 2000:388907 CAPLUS
 DN 133:17382
 TI Method for preparation of 3-isochromanone
 IN Hirai, Kenji; Uchida, Atsushi; Nanami, Hideki; Tanizawa, Naohito
 PA Sagami Chemical Research Center, Japan; Ihara Nitsukei Kagaku Kogyo K. K.
 SO Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000159759	A2	20000613	JP 1998-336870	19981127
OS	CASREACT 133:17382; MARPAT 133:17382				
GI					



AB The title compds. (I; X = H, halo, Cl-4 alkyl, Cl-4 alkoxy; n = 1-4; provided that when n is an integer of 2-4, X is same or different) are prepd. by reaction of .alpha.,.alpha.'-dichloroxylylene derivs. (II; X, n = same as above) with CO and water in the presence of a catalyst system contg. a **palladium**-complex and hydrogen halide-capturing agent, wherein this hydroxycarbonylation is carried out in the presence of alkali

metal bromide in a two-phase solvent system comprising arom. solvent and aq. solvent. This process provides a simple method for producing I which are useful as drugs and agrochems. Thus, a mixt. of 40 mL tert-Bu alc., 0.52 g Ph3P, 0.70 g dichlorobis(triphenylphosphine)**palladium**, 7.65 g Ca(OH)2, and 1.2 g KBr was vigorously stirred at 50.degree. under CO atm. for 15 min, followed by adding a soln. of 8.75 g .alpha.,.alpha.'-dichloroxylylene in 30 mL, stirring the mixt. for 10 min under the same conditions, and the adding 10 mL H2O, and the stirring was continued for addnl. 4 h under the same conditions to give, after workup, 86.4% 3-isochromanone.

L11 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2001 ACS
 TI Preparation of isochroman-3-ones
 AN 1999:659083 CAPLUS
 DN 131:271812
 TI Preparation of isochroman-3-ones
 IN Geissler, Holger; Pfirrmann, Ralf
 PA Clariant G.m.b.H., Germany
 SO Eur. Pat. Appl., 11 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 949256	A1	19991013	EP 1999-105411	19990317

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO

DE 19815323	A1	19991014	DE 1998-19815323A 19980406
DE 19815323	C2	20000615	DE 1998-19815323 19980406
JP 11343287	A2	19991214	JP 1999-98075 19990405
			DE 1998-19815323A 19980406
US 6075152	A	20000613	US 1999-286566 19990405
			DE 1998-19815323A 19980406

OS MARPAT 131:271812

AB Isochroman-3-ones of specified structure, useful as intermediates for herbicides and pharmaceuticals (no data), are prepd. by reaction of 1,2-bis(halomethyl)benzenes with CO and H2O at 20-200.degree./0.1-50 MPa in the presence of Pd catalysts, aprotic org. solvents and, optionally, ionic halide salts. Heating 1,2-(ClCH2)2C6H4 700, (Ph3P)2PdCl2 2.8 and Ph3P 2.4 g in 4 L DMF with CO at 130.degree./4 MPa while adding 400 mL 2.5:1.5 H2O/DMF over 2 h and holding for 1 h gave 281 g 97%-pure isochroman-3-one.

RE.CNT 2

RE

- (1) Sagami Chem Res; WO 9700850 A CAPLUS
- (2) Sagami Chem Res; EP 0834497 A 1998 CAPLUS

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
42.21	46.80

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-4.12	-4.12

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 10:37:13 ON 07 AUG 2001

Connecting via Winsock to STN

Trying 3106016892...Open

Welcome to STN International! Enter x:x

LOGINID:sssptal623paz

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 10:48:00 ON 07 AUG 2001
FILE 'CAPLUS' ENTERED AT 10:48:00 ON 07 AUG 2001
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
42.21	46.80

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-4.12	-4.12

CA SUBSCRIBER PRICE

=> d his

(FILE 'HOME' ENTERED AT 10:18:15 ON 07 AUG 2001)

FILE 'CAPLUS' ENTERED AT 10:18:30 ON 07 AUG 2001

FILE 'REGISTRY' ENTERED AT 10:18:55 ON 07 AUG 2001

E 3-ISOCHROMANONE/CN

L1 1 E3

FILE 'CAPLUS' ENTERED AT 10:19:41 ON 07 AUG 2001

L2 116 L1
L3 182709 PALLADIUM OR PD
L4 13 L2 AND L3
L5 352 AMIN
L6 313468 AMINE
L7 3 L6 AND L4
L8 40904 BUTANOL
L9 1 L8 AND L4
L10 1 L9 NOT L7
L11 10 L4 NOT L7

=> water

1683594 WATER
195655 WATERS
L12 1728686 WATER
(WATER OR WATERS)

=> tertiary alcohol

79060 TERTIARY
9 TERTIARIES
79065 TERTIARY
(TERTIARY OR TERTIARIES)
126406 ALCOHOL
108282 ALCOHOLS
219340 ALCOHOL
(ALCOHOL OR ALCOHOLS)
413297 ALC
143571 ALCS
486999 ALC
(ALC OR ALCS)
554130 ALCOHOL
(ALCOHOL OR ALC)
L13 3433 TERTIARY ALCOHOL
(TERTIARY(W)ALCOHOL)

=> 12 and 113

L14 2 L2 AND L13

=> d 114 1-2 ti

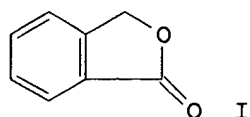
L14 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2001 ACS
TI Process for preparing 3-isochromanone

L14 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2001 ACS
TI Synthesis of lactones by the palladium-catalyzed carbonylation of halo alcohols

=> d 114 2 ti fbib abs

L14 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2001 ACS

TI Synthesis of lactones by the palladium-catalyzed carbonylation of halo
 alcohols
 AN 1980:514102 CAPLUS
 DN 93:114102
 TI Synthesis of lactones by the palladium-catalyzed carbonylation of halo
 alcohols
 AU Cowell, A.; Stille, J. K.
 CS Dep. Chem., Colorado State Univ., Fort Collins, CO, 80523, USA
 SO J. Am. Chem. Soc. (1980), 102(12), 4193-8
 CODEN: JACSAT; ISSN: 0002-7863
 DT Journal
 LA English
 GI



AB The synthesis of lactones in high yields by the Pd-catalyzed
 carbonylation
 of halo alcs. can be effected under mild conditions (1-4 atm CO,
 25-60.degree.) with a high turnover of Pd. Benzyl, allyl, aryl, and
 vinyl
 halides contg. primary, secondary, or **tertiary alc.**
 groups are readily converted to a variety of lactones, including
 phthalides and butenolides, by this simple procedure. Thus, o-IC₆H₄CH₂OH
 gave 100% I.

=> alcohol
 126406 ALCOHOL
 108282 ALCOHOLS
 219340 ALCOHOL
 (ALCOHOL OR ALCOHOLS)
 413297 ALC
 143571 ALCS
 486999 ALC
 (ALC OR ALCS)
 L15 554130 ALCOHOL
 (ALCOHOL OR ALC)

=> l15 and l2
 L16 20 L15 AND L2

 => l12 and l16
 L17 5 L12 AND L16

=> d l17 1-5 ti

L17 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2001 ACS
 TI Process, palladium catalysts and dipolar aprotic solvent systems for the
 preparation of isochroman-3-ones by the reaction of 1,2-
 bis(halomethyl)benzenes with **alcohols** and carbon monoxide

 L17 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2001 ACS

TI Method for preparation of 3-isochromanone

L17 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2001 ACS

TI Process for preparing 3-isochromanone

L17 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2001 ACS

TI Process for producing 2-(halomethyl)phenylacetic acid esters

L17 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2001 ACS

TI 1,2-Di(lithiomethyl)benzene from phthalan: sequential introduction of two different electrophiles

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
55.11	59.70

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-4.70	-4.70

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 10:53:02 ON 07 AUG 2001